MMM MMM MMM MMM MMMMMM MMMMMM MMMMMM MMMMMM	000000000 000000000 000000000 000 000 000 000	NNN NNN NNN NNN NNN NNN NNN NNN NNN NN		000000000 000000000 000 000 000 0	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
---	--	--	--	--	--

MM MM MMM MMMM MMMM MMMMM MM MM MM MM MM	000000 00 00 00 00	NN NN NN NN NN NN NNN NN NNNN NN NN NN N	MM MM MMM MMM MMMM MMM MM MM MM MM MM MM	AAAAAA AA AA AA AA	NN	
		\$				

89012345678901234567890123456789012345

MONMAIN: Procedure

Returns(Fixed Binary(31))
Options(Ident('V04-000'), Main);

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/\* FACILITY: VAX/VMS MONITOR Utility

/\* ABSTRACT: MAIN Routine, including command interface.

/\* ENVIRONMENT:

1.

121

/+++

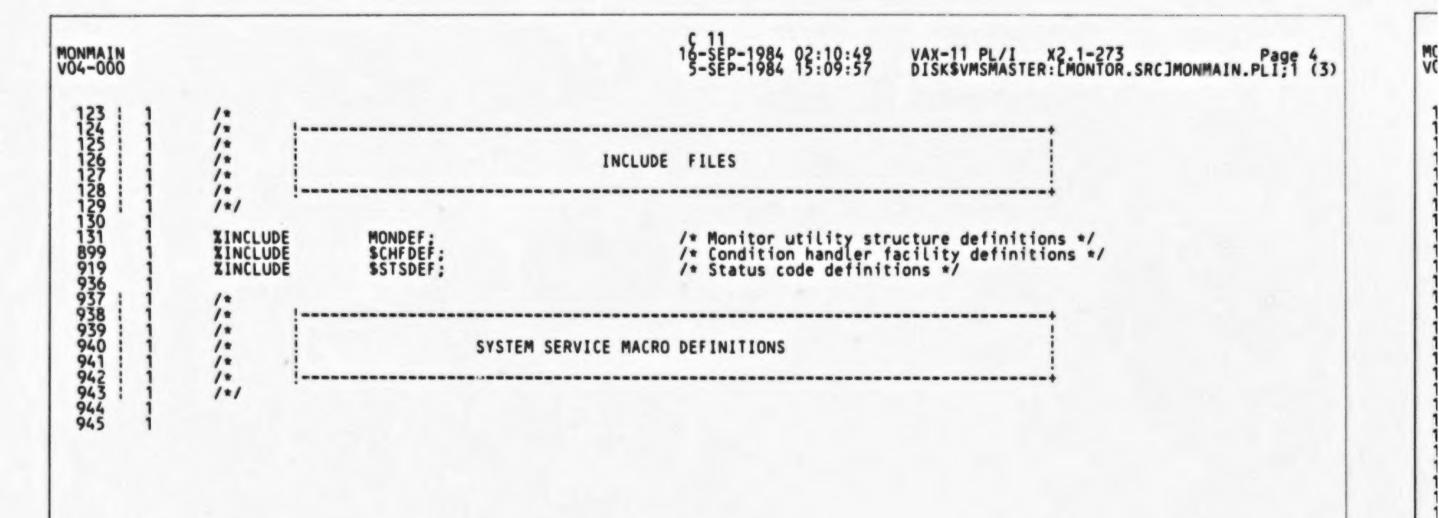
1:

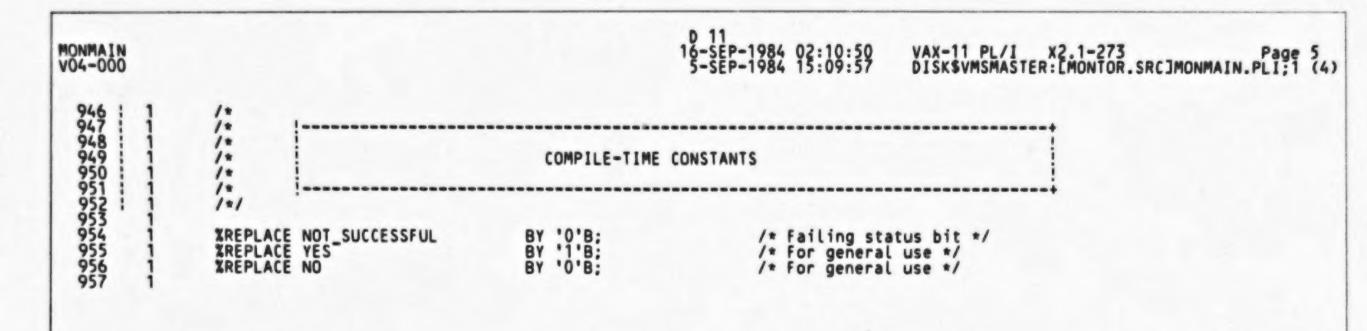
Unprivileged user mode, except for certain collection routines which run in EXEC or KERNEL mode to access system data bases.

AUTHOR: Thomas L. Cafarella, April, 1981

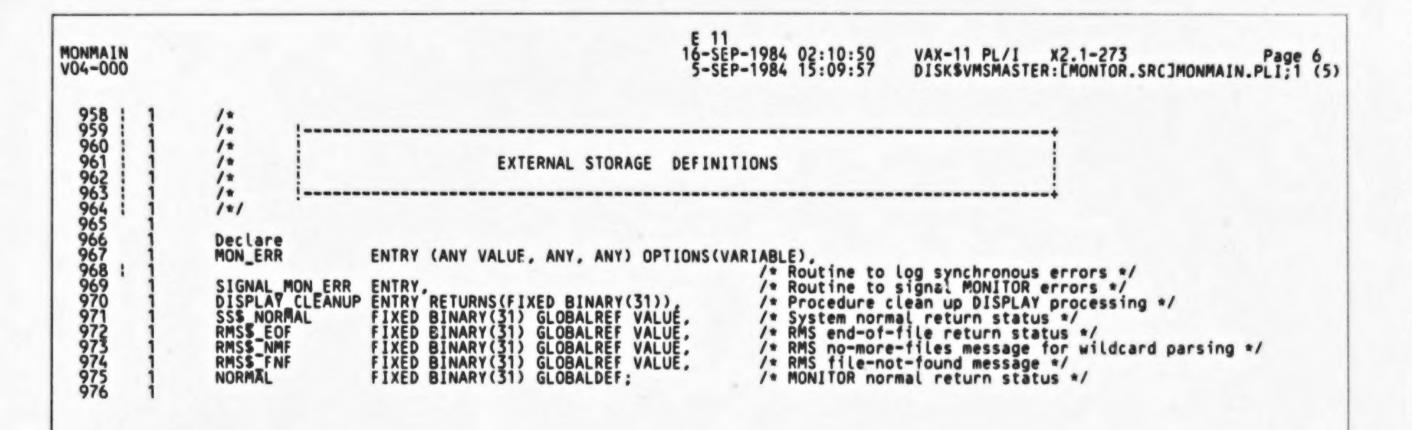
MONMAIN VO4-000	N 10 16-SEP-1984 02:10:48 VAX-11 PL/I X2.1-273 Pa 5-SEP-1984 15:09:57 DISK\$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI	ge 2 ;1 (2)
46   1	/* MODIFIED BY:	
48 1 50 1	/* V03-018 TLC1089 Thomas L. Cafarella 26-Jul-1984 11:00 /* Accept a space character in time specification.	
52 1	/* V03-017 TLC1087 Thomas L. Cafarella 25-Jul-1984 15:00 /* Default to /ALL when summarizing.	
55 1	/* V03-016 TLC1075 Thomas L. Cafarella 27-Jun-1984 15:00	*
58 1	/* V03-015 TLC1073 Thomas L. Cafarella 02-May-1984 13:00 /* Make MAX_INP_FILES limit bigger.	
61 1	/* V03-014 PRS1012 Paul R. Senn 23-Mar-1984 14:00	
64 1	/* V03-013 TLC1056 Thomas L. Cafarella 23-Mar-1984 13:00	
66 1 67 1 68 1	/* V03-012 PRS1011 Paul R. Senn 29-Feb-1984 14:00 /* add /FLUSH_INTERVAL qualifier	
70 1 71 1	/* V03-011 TLC1052 Thomas L. Cafarella 17-Feb-1984 11:00 /* Add multi-file summary capability.	
48 490 551 552 553 555 556 666 666 667 777 777 777	/* V03-010 PRS1002 Paul R. Senn 29-Dec-1983 16:00 /* GLOBALDEF VALUE symbols must now be longwords; /* Use %REPLACE rather than GLOBALDEF VALUE for any equated /* symbols which are not 4 bytes in length:	
78 1 79 1	/* V03-010 PRS1001 Paul R. Senn 27-Dec-1983 16:00 /* Add ALL CLASSES Pseudo-class	
81 1 82 1	/* V03-009 TLC1044 Thomas L. Cafarella 24-Aug-1983 13:00 /* Eliminate CLI 'NOCOMD' error for comment lines.	
84 1 85 1	/* V03-008 SPC0007 Stephen P. Carney 24-Jun-1983 16:00 /* Add EXECUTE subcommand.	
87 1 88 1	/* V03-007 TLC1042 Thomas L. Cafarella 19-Jun-1983 15:00 /* Add /ITEM qualifier for homogeneous classes.	
90 1	/* V03-007 TLC1041 Thomas L. Cafarella 16-Jun-1983 15:00 /* Ignore CLI error message when no command on line.	
93 1	/* V03-007 TLC1038 Thomas L. Cafarella 14-Jun-1983 18:00 /* Make default list of classes replace previous list.	
96 1 97 1	/* V03-006 TLC1028 Thomas L. Cafarella 14-Apr-1983 16:00 /* Add interactive user interface.	
99   1 100   1 101   1	/* V03-005 TLC1019 Thomas L. Cafarella 18-Jun-1982 16:00 /* Change CLI\$_NEGATED symbol to CLI\$_LOCNEG.	

MONMAIN V04-000			B 11 16-SEP-1984 02:10:49 5-SEP-1984 15:09:57	VAX-11 PL/I X2.1-273 Page 3 DISK\$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI;1 (2)
102	1 /	* v03-004	TLC1012 Thomas L. Cafarella 30-Mar-1982 Display user's comment string on screen line 5.	13:00
102 103 104 105 106 107 108 109	1 /	* v03-004	TLC1011 Thomas L. Cafarella 29-Mar-1982 Move system service names for SSERROR msg to static sto	20:00 prage.
108	1 /	* v03-003	TLC1009 Thomas L. Cafarella 29-Mar-1982 Get current time when other times are converted.	01:00
1111	1 /	* v03-003	TLC1007 Thomas L. Cafarella 28-Mar-1982 Add checks for maximum sizes of qualifier values.	19:00
113	1 /	* V03-002	TLC1003 Thomas L. Cafarella 23-Mar-1982 Fix up module headers.	13:00
115 116 117 118 119 120 121	1 /	v03-001	TLC1001 Thomas L. Cafarella 16-Mar-1982 Add CTRL-W screen refresh support.	13:00

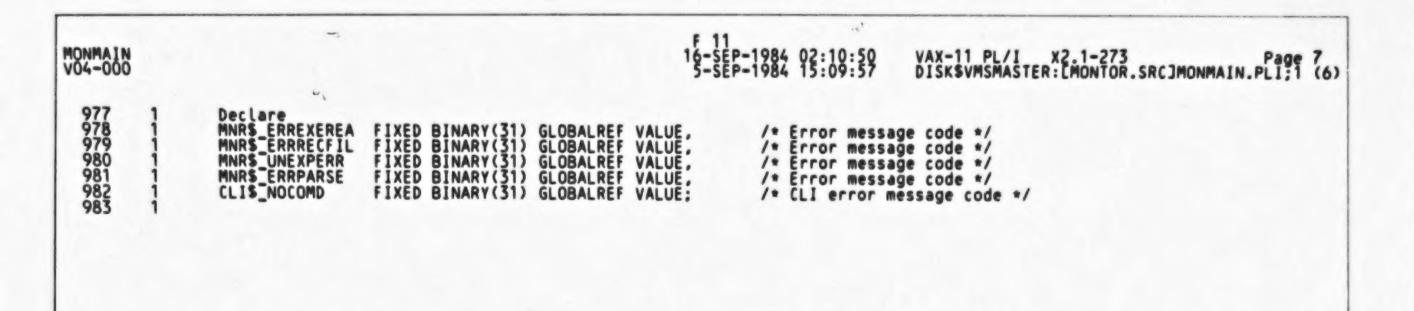




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FIXED BINARY(7) INIT(7). CHAR(7) INIT('\$DCLAST');

/\* Counted string for \$DCLAST\*/

/\* Length \*/
/\* String \*/

1 DCLAST\_STR GLOBALDEF

Default file-spec values for qualifiers. Descriptors for these strings are defined in the DEF structure.

14



END:

```
N 11
16-SEP-1984 02:10:53
5-SEP-1984 15:09:57
MONMAIN
VO4-000
                                                                                                                                                                                                 VAX-11 PL/I X2.1-273 Page 15 ISK$VMSMASTER: [MONTOR.SRC]MONMAIN.PLI; T (13)
CALL = MONITOR_INIT();
                                                                                                                                                              /* Do image-wide initialization */
/* Continue if status OK */
                                   IF STATUS
                                            THEN CALL = MONITOR_CMD();
                                                                                                                                                              /* Analyze and execute first (DCL-level) MONITOR cmd */
                                  MON_REQ_TERM:
                                                                                                                                                              /* MONITOR request termination */
                                                    We get to this point by one of three routes:
                                                                     1) A MONITOR request has just terminated successfully or with an error status code; or 2) A MONITOR request has just terminated with an error that was signaled; or 3) The MONITOR_INIT call above terminated with an error status.
                                                   In all three cases we want to do the same thing. That is, to loop prompting for more subcommands as long as the PROMPT indicator is still set to YES. It can be set to NO by an EXIT subcommand, or as a result of the user's striking CTRL/Z (either in response to the MONITOR> prompt, or while a MONITOR request is running). In case 3 above, it will always be set to NO. For all cases, the variable CALL contains the status code of interest and, if an error, the PUTMSG vector (PUTMSGVEC) has been set up with error message information. STATUS is a synonym for the low-order bit of CALL.
                                                   If the EXECUTE indicator is set to YES then NEXT EXECUTE COMMAND will be called. If EXECUTE is set to NO, then NEXT COMMAND is called. NEXT EXECUTE COMMAND will retrieve commands from a file intead of the terminal as done by EXECUTE COMMAND.
                                  IF STATUS = NOT_SUCCESSFUL
                                                                                                                                                              /* If bad status, */
                                           THEN DO:
                                                                                                                                                             /* If display output is active, */
/* then perform cleanup */
/* Signal MONITOR error */
                                                      IF DISPLAYING = YES
                                                              THEN STS$VALUE = DISPLAY_CLEANUP();
                                                      CALL SIGNAL_MON_ERR();
                                  DO WHILE (PROMPT = YES);
                                                                                                                                                             /* Main loop to perform subcommands */
/* Read from the execute command file? */
/* Yes, execute next subcommand line from the file */
                                           IF EXECUTE = YES
                                          THEN CALL = NEXT_EXECUTE COMMAND();
ELSE CALL = NEXT_COMMAND();
IF STATUS = NOT_SUCCESSFUL THEN DO;
IF DISPLAYING = YES
THEN STS$VALUE = DISPLAY_CLEANUP();
CALL SIGNAL_MON_ERR();
                                                                                                                                                            /* No, Read from the terminal and execute next subcommand li
/* If bad status, */
/* If display output is active, */
/* then perform cleanup */
/* Signal MONITOR error, using PUTMSGVEC */
                                                    END:
                                  END:
                                                                                                                                                             /* End of subcommand loop */
                                  STS$VALUE = CALL;
STS$INHIB MSG = YES;
RETURN(STS$VALUE);
                                                                                                                                                              /* Get MONITOR completion status */
                                                                                                                                                             /* Inhibit DCL print */
/* Return to DCL */
```

/\* Init address longword of descr \*/

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VO

MONMAIN V04-000

> QUALSL\_DISP = LENGTH(DISP\_QUAL\_S); QUALSA\_DIS( = ADDR(DISP\_QUAL\_S); QUAL\$L\_REC = LENGTH(REC\_QUAL\_S); QUAL\$A\_REC = ADDR(REC\_QUAL\_S); /\* Init length longword of descr \*/
> /\* Init address longword of descr \*/ QUAL\$L\_SUMM = LENGTH(SUMM QUAL\_S); QUAL\$A\_SUMM = ADDR(SUMM\_QUAL\_S); /\* Init length longword of descr \*/
> /\* Init address longword of descr \*/ QUAL\$L\_COMM = LENGTH(COMM\_QUAL\_S); QUAL\$A\_COMM = ADDR(COMM\_QUAL\_S); /\* Init length longword of descr \*/
> /\* Init address longword of descr \*/ QUAL\$L BY NODE = LENGTH(BY NODE QUAL S);
> QUAL\$A BY NODE = ADDR(BY NODE QUAL S); /\* Init length longword of descr \*/
> /\* Init address longword of descr \*/ QUAL\$L\_CLASS = LENGTH(CLASS\_PARM\_S); QUAL\$A\_CLASS = ADDR(CLASS\_PARM\_S); /\* Init length longword of descr \*/ /\* Init address longword of descr \*/ QUAL\$L\_ALL = LENGTH(ALL QUAL S); QUAL\$A\_ALL = ADDR(ALL\_QUAL\_S); /\* Init length longword of descr \*/
> /\* Init address longword of descr \*/ QUAL\$L\_CUR = LENGTH(CUR\_QUAL\_S); QUAL\$A\_CUR = ADDR(CUR\_QUAL\_S); /\* Init length longword of descr \*/
> /\* Init address longword of descr \*/ QUAL\$L\_AVE = LENGTH(AVE QUAL S); QUAL\$A\_AVE = ADDR(AVE\_QUAL\_S); /\* Init length longword of descr \*/
> /\* Init address longword of descr \*/ QUAL\$L\_MIN = LENGTH(MIN\_QUAL\_S); QUAL\$A\_MIN = ADDR(MIN\_QUAL\_S); /\* Init length longword of descr \*/ /\* Init address longword of descr \*/ QUALSL\_MAX = LENGTH(MAX QUAL S); QUALSA\_MAX = ADDR(MAX\_QUAL\_S); /\* Init length longword of descr \*/
> /\* Init address longword of descr \*/ QUAL\$L\_TOPC = LENGTH(TOPC QUAL S); QUAL\$A\_TOPC = ADDR(TOPC\_QUAL\_S); /\* Init length longword of descr \*/ /\* Init address longword of descr \*/ QUAL\$L\_TOPD = LENGTH(TOPD QUAL S);
> QUAL\$A\_TOPD = ADDR(TOPD\_QUAL\_S); /\* Init length longword of descr \*/
> /\* Init address longword of descr \*/ QUAL\$L\_TOPB = LENGTH(TOPB QUAL S); QUAL\$A\_TOPB = ADDR(TOPB\_QUAL\_S); /\* Init length longword of descr \*/ /\* Init address longword of descr \*/ QUAL\$L\_TOPF = LENGTH(TOPF QUAL\_S); QUAL\$A\_TOPF = ADDR(TOPF\_QUAL\_S); /\* Init length longword of descr \*/
> /\* Init address longword of descr \*/ QUAL\$L\_CPU = LENGTH(CPU\_QUAL\_S); QUAL\$A\_CPU = ADDR(CPU\_QUAL\_S); /\* Init length longword of descr \*/
> /\* Init address longword of descr \*/ QUAL\$L\_PCENT = LENGTH(PCENT\_QUAL\_S);
> QUAL\$A\_PCENT = ADDR(PCENT\_QUAL\_S); /\* Init length longword of descr \*/
> /\* Init address longword of descr \*/ QUAL\$L\_ITEM = LENGTH(ITEM\_QUAL\_S); QUAL\$A\_ITEM = ADDR(ITEM\_QUAL\_S); /\* Init length longword of descr \*/
> /\* Init address longword of descr \*/ DEF\$L\_REC = LENGTH(REC\_DEF\_S);
> DEF\$A\_REC = ADDR(REC\_DEF\_S); /\* Init length longword of descr \*/ /\* Init address longword of descr \*/

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/\* Return with status from INIT\_CMD \*/

RETURN(CALL);

END MONITOR\_INIT:

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```
I 12
16-SEP-1984 02:11:00 VAX-11 PL/I X2.1-273 Page 23
5-SEP-1984 15:09:57 ISK$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI;I (19)
MONMAIN
VO4-000
1534123456715556789012315577789012315931593
                                                  FIXED BINARY (31), POINTER,
                                                                                                                              /* Length */
/* Address */
                         1 REP_LINE,
                                                                                                                               /* Static command line descriptor (for subcommands)
                           2 L
                                                   FIXED BINARY (31)
                                                                                                                               /* Length */
                                                   POINTER.
                                                                                                                              /* Address */
                                                                                                                              /* Command buffer to replace 'a" with 'EXECUTE " */
                         CMD_LINE_S
                                                  CHAR (MAX_EXEC_LINE) STATIC:
                         Declare
                                                                                                                               /* Command language definition tables ... */
                            MONSUB
                                                   CHAR(1) GLOBALREF:
                                                                                                                              /* Note -- we simply need a global reference to the
/* tables. Their length is unknown and irrelevant */
                         Declare
                           AT SIGN S
EXECUTE S
AT SIGN POS
                                                                                                                              /* 'a" used to search command line */
/* "EXECUTE " used to replace the "a" in the command
/* Position of 'a" in the command line */
                                                  CHAR(1) STATIC INIT('a'),
CHAR(8) STATIC INIT('EXECUTE '),
                                                 FIXED BINARY (31):
                         FIRST MON CMD = NO:
                                                                                                                               /* first MONITOR cmd executes before NEXT_COMMAND rt
                         DYN STRING L = 0:
                                                                                                                              /* Init cmd line length to enter loop */
                        DO WHILE (DYN STRING.L = 0);

CALL = LIBSGET INPUT(DYN STRING, PROMPT_STR,);

IF STATUS = NOT_SUCCESSFUL
                                                                                                                              /* Loop while user enters null lines */
                                                                                                                              /* Read the next subcommand */
                                                                                                                              /* If LIB$GET_INPUT call failed, */
                                THEN DO:
                                       PROMPT = NO:
                                                                                                                              /* Indicate no more prompting */
/* If end-of-input, */
/* then return with normal status */
                                        IF CALL = RMSS EOF
                                              THEN RETURN (NORMAL):
                                              ELSE DO:
                                                      CALL MON ERR(MNR$ ERRPROMPT, CALL):
                                                                                                                            /* Otherwise, log the error ... */
/* and return with status */
                                                      RETURN (MARS_ERRPROMPT);
                                       END:
                         END:
                                                                                                                              /* Copy the length of the command line */
/* Get the address of the new working buffer */
/* Copy the command line into the buffer */
/* Locate a 'a' in the command line */
/* Was there one? */
                         CMD_LINE.A = ADDR(CMD_LINE_S);
CMD_LINE S = DYN_STRING_S;
AT_SIGN_POS = STR$POSITION(CMD_LINE, DESCRIPTOR(AT_SIGN_S));
IF AT_SIGN_POS > 0
                         CMD_LINE.L = DYN_STRING.L;
                                     /* Yes, prepare to replace the "a" with "EXECUTE " *

REP_LINE.L = CMD_LINE.L + 7;

REP_LINE.A = CMD_LINE.A;

CALC = STR$REPLACE (REP_LINE, CMD_LINE, AT_SIGN_POS, /* Replace the "a" with "EXECUTE " */

AT_SIGN_POS, DESCRIPTOR(EXECUTE_S));/* (need REP_LINE to prevent trunc warning) */

IF STATUS = NOT_SUCCESSFUL

THEN DO:
                               TREN DO:
                                            THEN DO:
                                                  CALL MON_ERR (MNR$ ERREXEREP, CALL);
                                                                                                                            /* Log the error ... */
/* and return with status */
                                                   RETURN (MARS_ERREXEREP);
                                            ELSE CMD_LINE.L = REP_LINE.L;
                                                                                                                              /* STR$REPLACE succeeded, update length of descr */
```

MONMAIN v04-000 1674 : 2 /\* 1675 : 2 /\* 1676 : 2 /\* 1677 : 2 /\*/ 1678 2

L 12 16-SEP-1984 02:11:02 VAX-11 PL/I X2.1-273 Page 26 5-SEP-1984 15:09:57 ISK\$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI; T (21)

M(

```
MONMAIN
VO4-000
                                                                                                                                                                            VAX-11 PL/I X2.1-273 Page 28 ISK$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI;1 (22)
                                                                              FIXED BINARY(31),
POINTER,
CHAR(MAX_EXEC_LINE) STATIC VARYING GLOBALDEF; /* Buffer for a subcommand */
COMMAND_RECORD
                                                                                                               LOCAL STORAGE
                                1+1
                               Declare
                                       1 REP_LINE,
                                                                                                                                                            /* Static command line descriptor (for subcommands)
                                                                                                                                                            /* Length */
/* Address */
                                                                              FIXED BINARY (31)
                                                                              POINTER:
                               Declare
                                      AT_SIGN_S CHAR(1) STATIC INIT('a'), /* 'a'' used to search command line */
EXECUTE_S CHAR(8) STATIC INIT('EXECUTE '), /* 'EXECUTE '' used to replace 'a'' */
AT_SIGN_POS_FIXED_BINARY(31), /* Position of 'a'' in command line */
TEMP_COMMAND_PTR FIXED_BINARY(31) /* Alias for SUB_COMMAND.A computation */
                                                                              BASED (ADDR (SUB_COMMAND.A));
                               ON ENDFILE (COMMAND_FILE) GOTO COMMAND_EOF;
                                                                                                                                                           /* Set up the EOF condition */
                              CURR_ERRCODE = MNR$ ERREXEREA;
READ FILE (COMMAND_FILE) INTO (COMMAND_RECORD);
CURR_ERRCODE = 0;
                                                                                                                                                            /* Set MONITOR code in case read error is signaled *
                                                                                                                                                            /* Read the next subcommand */
                                                                                                                                                            /* Reset the error code, assume the condition was re
                             SUB_COMMAND_L = LENGTH(COMMAND_RECORD);

SUB_COMMAND_A = ADDR(COMMAND_RECORD);

TEMP_COMMAND_PTR = TEMP_COMMAND_PTR + 2;

AT_SIGN_POS = STR$POSITION(SUB_COMMAND, DESCRIPTOR(AT_SIGN_S)); /* Locate 'a'' in command line */

IF AT_SIGN_POS > 0

THEN_DO;

REP_LINE.L = SUB_COMMAND.L + 7;

REP_LINE.A = SUB_COMMAND.A;

CALL = STR$REPLACE (REP_LINE, SUB_COMMAND, AT_SIGN_POS, /* Replace 'a'' with 'EXECUTE '' */

AT_SIGN_POS > 0

/* Yes, prepare to replace 'a'' with 'EXECUTE '' */

REP_LINE.A = SUB_COMMAND.A;

CALL = STR$REPLACE (REP_LINE, SUB_COMMAND, AT_SIGN_POS, /* Replace 'a'' with 'EXECUTE '' */

AT_SIGN_POS, DESCRIPTOR(EXECUTE_S)); /* (REP_LINE prevents truncation warning) */

THEN_DO;
                                                     THEN DO;

CALL MON_ERR(MNR$_ERREXEREP,CALL);

RETURN(MNR$_ERREXEREP);
                                                                                                                                                          /* Log the error ... */
/* and return with status */
                                                      ELSE SUB_COMMAND.L = REP_LINE.L:
                                                                                                                                                         /* STR$REPACE succeded, upade command desc */
 1786
```

```
MONMAIN
VO4-000
                                                                                                        16-SEP-1984 02:11:03
5-SEP-1984 15:09:57
                                                                                                                                              VAX-11 PL/I X2.1-273 Page 29
ISK$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI:1 (23)
                          CURR_ERRCODE = MNR$ ERRPARSE;
CALL = CLISDCL_PARSE(SUB_COMMAND, MONSUB);
CURR_ERRCODE = 0;
 1787
1788
1789
1790
1791
1792
1793
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1795
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1798
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1800
1801
1803
1804
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1806
1810
1811
1813
1814
1815
1816
                                                                                                                                 /* Set MONITOR code in case parsing error signaled *
                                                                                                                                 /* Parse the subcommand */
/* Reset to default MONITOR code */
/* If parse failed, */
                          IF STATUS = NOT SUCCESSFUL
                               THEN DO:

IF CALL = CLIS NOCOMD

THEN RETURN(NORMAL);
                                                                                                                                 /* If 'no command on line' */
                                                                                                                                 /* then quietly ignore it */
/* Otherwise, */
                                                       CALL MON ERR(MNR$ ERRPARSE, CALL);
RETURN(MNR$ ERRPARSE);
                                                                                                                                         log the error ... */
... and return with status */
                                                                                                                                 1 *
                                        END:
                          CALL = CLISDISPATCH();
                                                                                                                                 /* Execute the parsed command */
                                                                                                                                 /* Note -- command subroutines return status */
                                                                                                                                 /* values and log their own errors by */
/* calling MON ERR */
/* Reset to default MONITOR code in case subcommand
/* Return to caller with cmd subroutine's status */
                          CURR ERRCODE = 0:
                          RETURN(CALL):
                          COMMAND_EOF:
                                CLOSE FILE (COMMAND FILE);
                                                                                                                                 /* Close the file after EOF condition raised */
                                                                                                                                 /* Indicate no more from the execute file */
/* Reset to default MONITOR code in case subcommand
                                EXECUTE = NO;
                                 CURR_ERRCODE = 0;
                                RETURN (NORMAL):
                                                                                                                                 /* Return to caller with cmd subroutine's status */
                          END NEXT_EXECUTE_COMMAND;
                          END MONMAIN:
```

VAX-11 PL/I X2.1-273 Page 30 ISK\$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI;1 (24)

VO

VAX-11 PL/I X2.1-273 Page 33 ISK\$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI; (26) MONMAIN VO4-000 10/ TREPLACE TREPLACE TREPLACE SECONDS TOK SIZE TIME TOK SIZE FILE SPEC SIZE /\* Size of token for seconds \*/
/\* Size of token for time specs \*/
/\* Max file spec size \*/ BY 7; BY 40; BY 128;

MO

MONMAIN v04-000 16-5EP-1984 02:11:08 VAX-11 PL/I x2.1-273 Page 35 S-SEP-1984 15:09:57 ISK\$VMSMASTER:EMONTOR.SRCJMONMAIN.PLI;T (27)

2802 1 2-4 FIXED BINARY(31), /\* Length \*/ \* Length \*/ \* Address \*/ \* Address \*/ \* Address \*/ \* Q VAL\_TIME CHAR(TIME TOK SIZE), /\* Qualifier value string for time values \*/ 2808 1 G VAL\_SECS CHAR(SECONDS TOK SIZE+1), /\* Qualifier value string for seconds values \*/ 2809 1 TS\_LER FIXED BINARY(15); /\* Actual length of time spec \*/

2811 1

MC

```
VAX-11 PL/I X2.1-273 Page 38 ISK$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI;1 (29)
MONMAIN
V04-000
                                                                                                                        /* Set length field of descriptor */
/* Set address field of descriptor */
 Q_VAL.L = LENGTH(Q_VAL_SECS):
                      Q_VAL.A = ADDR(Q_VAL_SECS);
                      CALL = CLISPRESENT(QUALSL_INT);
                                                                                                                        /* Get INTERVAL qualifier presence indicator
/* If explicitly present, */
                      IF CALL = CLIS PRESENT
                        THEN
                           DO:
                           QUAL SPECIFIED = YES;
IF CLISGET_VALUE(QUALSL_INT,Q_VAL)
                                                                                                                      /* Indicate qualifier explicitly specified *
/* Get "INTERVAL" string and check status */
/* Value was specified */
                                       Q VAL.L = INDEX(Q_VAL_SECS, ' ') - 1;
IF Q_VAL.L <= 0
THEN_DO;
                                                                                                                      /* Eliminate trailing blanks */
/* Check for valid size for "seconds" */
                                              CALL MON_ERR (MNR$_INVINTSP);
                                                                                                                      /* Log possible error */
                                              RETURN (MARS_INVINTSP);
                                                                                                                        /* ... and return with status */
                                       CURR ERRCODE = MNR$ INVINTSP;
                                       M->MRB$L INTERVAL = BIN(SUBSTR(Q_VAL_SECS,1,Q_VAL.L),31); /* Convert seconds to binary */

CURR_ERRCODE = 0; /* Reset to default MONITOR code */

IF M->MRB$L_INTERVAL <= 0 /* Check for Walid Walnut ()
                                       THEN DO:
                                              CALL MON ERR(MNR$ INVINTSP):
                                                                                                                      /* Log possible error */
                                              RETURN (MARS_INVINTSP);
                                                                                                                       /* ... and return with status */
                                  END:
                                                                                                                        /* Value was defaulted */
                                  M->MRB$L_INTERVAL = DEF_MRBPTR->MRB$L_INTERVAL;
                                                                                                                        /* Store the default value */
                           END:
                     Q_VAL.L = LENGTH(Q_VAL_SECS);
                                                                                                                        /* Set length field of descriptor */
                                                                                                                        /* Get FLUSH qualifier presence indicator */
/* If explicitly present, */
                      CALL = CLISPRESENT(QUALSL_FLUSH);
                      IF CALL = CLIS PRESENT
                        THEN
                           DO:
                                                                                                                       /* Indicate qualifier explicitly specified *
/* Get 'FLUSH' string and check status */
/* Value was specified */
                           QUAL_SPECIFIED = YES;
IF CLISGET_VALUE(QUALSL_FLUSH,Q_VAL)
                                       Q_VAL.L = INDEX(Q_VAL_SECS, ' ') - 1;
IF Q_VAL.L <= 0
THEN_DO;
                                                                                                                     /* Eliminate trailing blanks */
/* Check for valid size for 'seconds' */
                                              CALL MON_ERR (MNR$_INVFLUSHSP);
                                                                                                                      /* Log possible error */
/* ... and return with status */
                                              RETURN (MARS_INVFLOSHSP);
                                       CURR ERRCODE = MNR$ INVFLUSHSP;

M->MRB$L_FLUSH = BIN(SUBSTR(Q_VAL_SECS,1,Q_VAL.L),31);

CURR_ERRCODE = 0;

IF M=>MRB$L_FLUSH <= 0
                                                                                                                        /* Set MONITOR code in case conversion error
                                                                                                                       /* Convert seconds to binary */
/* Reset to default MONITOR code */
/* Check for valid value */
                                        THEN DO:
                                              CALL MON ERR (MNR$ INVFLUSHSP);
                                                                                                                                   /* Log possible error */
                                                                                                                    /* ... and return with status */
                                              RETURN (MARS_INVFLOSHSP);
                                              END:
                                  END:
                           ELSE
                                                                                                                        /* Value was defaulted */
```

```
L 13
16-SEP-1984 02:11:10
5-SEP-1984 15:09:57
MONMAIN
VO4-000
                                                                                                                                                   VAX-11 PL/I X2.1-273 Page 39 ISK$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI:1 (29)
                                         M->MRB$L_FLUSH = DEF_MRBPTR->MRB$L_FLUSH:
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                                                                                                                                                   /* Store the default value */
                                 END:
                          Q_VAL.L = LENGTH(Q_VAL_SECS);
                                                                                                                                                   /* Set length field of descriptor */
                          CALL = CLISPRESENT(QUALSL_VIEW);
IF CALL = CLIS_PRESENT
                                                                                                                                                   /* Get VIEWING_TIME qualifier presence indic
/* If explicitly present, */
                              THEN
                                 DO:
                                                                                                                                                  /* Indicate qualifier explicitly specified *
/* Get 'VIEWING_TIME' string and check statu
/* Value was specified */
/* Eliminate trailing blanks */
/* Check for valid size for 'seconds' */
                                 QUAL SPECIFIED = YES;
IF CLISGET_VALUE(QUALSL_VIEW,Q_VAL)
                                  THEN DO:
                                                Q_VAL.L = INDEX(Q_VAL_SECS,' ') - 1;
IF Q_VAL.L <= 0
THEN DO;
                                                         CALL MON ERR(MNR$ INVVIEWSP);
RETURN(MNR$ INVVIEWSP);
                                                                                                                                                   /* Log possible error */
                                                                                                                                                   /* ... and return with status */
                                                CURR ERRCODE = MNR$ INVVIEWSP;

M->MRB$L_VIEWING_TIME = BIN(SUBSTR(Q_VAL_SECS,1,Q_VAL.L),31); /* Convert seconds to binary */

CURR_ERRCODE = 0; /* Reset to default MONITOR code */

/* Check for valid value */
                                                                                                                                                    /* Set MONITOR code in case conversion error
                                                 THEN DO:
                                                         CALL MON_ERR(MNR$_INVVIEWSP);
RETURN(MNR$_INVVIEWSP);
                                                                                                                                                   /* Log possible error */
                                                                                                                                                   /* ... and return with status */
                                                         END:
                                         END:
                                                                                                                                                  /* Value was defaulted */
/* Store the default value */
                                 ELSE
                                         M->MRB$L_VIEWING_TIME = DEF_MRBPTR->MRB$L_VIEWING_TIME;
                                 END:
```

MC

MC

```
MONMAIN
VO4-000
                                                                                                                                                                                                                                                                                           VAX-11 PL/I X2.1-273 Page 41 ISK$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI;1 (31)
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                                                   CALL = CLISPRESENT(QUALSL_DISP);
IF CALL = CLIS_PRESENT
                                                                                                                                                                                                                                                                                           /* Get DISPLAY qualifier presence indicator
/* If explicitly present, */
                                                                THEN DO:
                                                                               QUAL SPECIFIED = YES;
IF DISP PTR VOL = NULL()
THEN DO;
                                                                                                                                                                                                                                                                                           /* Indicate qualifier explicitly specified *
/* If no volatile file spec string area, */
                                                                                                            ALLOCATE FILE SPEC;

DISP_PTR_VOL = FILE SPEC PTR;

FILE SPEC.L = LENGTR(FILE SPEC.S);

FILE SPEC.A = ADDR(FILE SPEC.S);
                                                                                                                                                                                                                                                                                                            then get one */
                                                                                                                                                                                                                                                                                                           set up a ptr to it */
set length ... */
and address in descriptor */
                                                                                                                                                                                                                                                                                           1 *
                                                                                                                                                                                                                                                                                           1 *
                                                                                                              END:
                                                                                             ELSE DO:
                                                                                                             FILE SPEC PTR = DISP PTR VOL:
FILE SPEC.L = FILE SPEC SIZE;
                                                                                                                                                                                                                                                                                          /* Otherwise, simply point to existing one *
/* ... and re-init its length */
                                                                               IF CLISGET_VALUE(QUALSL_DISP,FILE_SPEC)
THEN DO;
                                                                                                                                                                                                                                                                                        /* Qualifier value specified ? */
                                                                                                           DISP_PTR_SWAP = YES;

TEMP = INDEX(FILE_SPEC.S,' ') - 1;

IF TEMP >= 0 THEN FILE_SPEC.L = TEMP;

M->MRB$A_DISPLAY = FILE_SPEC_PTR;

M->MRB$V_DISP_TO_FILE = YES;
                                                                                                                                                                                                                                                                                        /* Yes -- ind to SET_CMD a ptr swap is neces
/* Find trailing blanks in value (string) */
/* If found one, set new length */
/* Store away pointer to value descr */
/* Indicate filespec specified */
                                                                                                             END:
                                                                                            ELSE DO:
                                                                                                                                                                                                                                                                                          /* No -- qualifier value defaulted */
                                                                                                            M->MRB$A_DISPLAY = ADDR(DEF$L_DISP);
M->MRB$V_DISP_TO_FILE = NO;
                                                                                                                                                                                                                                                                                         /* Store a default value descr */
/* ... and default indicator */
                                                                                                             END:
                                                                               END:
                                                   IF CALL = CLIS_NEGATED
                                                                                                                                                                                                                                                                                          /* If explicitly negated, */
                                                                THEN DO:
                                                                               QUAL SPECIFIED = YES:
                                                                                                                                                                                                                                                                                          /* Indicate qualifier explicitly specified *
                                                                               M->MRBSA_DISPLAY = NULL();
M->MRBSV_DISP_TO_FILE = NO;
                                                                                                                                                                                                                                                                                           /* Indicate no display output */
                                                                                                                                                                                                                                                                                           /* ..... */
                                                   CALL = CLISPRESENT(QUALSL_REC);
                                                                                                                                                                                                                                                                                           /* Get RECORD qualifier presence indicator *
                                                   IF CALL = CLIS PRESENT
                                                                                                                                                                                                                                                                                         /* If explicitly present, */
                                                              THEN DO;
QUAL SPECIFIED = YES;
IF REC PTR VOL = NULL()
                                                                                                                                                                                                                                                                                         /* Indicate qualifier explicitly specified *
/* If no volatile file spec string area, */
                                                                                             THEN DO:
                                                                                                            ALLOCATE FILE_SPEC;

REC_PTR_VOL = FILE_SPEC_PTR;

FILE_SPEC.L = LENGTH(FICE_SPEC.S);

FILE_SPEC.A = ADDR(FILE_SPEC.S);
                                                                                                                                                                                                                                                                                                           then get one */
                                                                                                                                                                                                                                                                                                         set up a ptr to it */
set length ... */
and address in descriptor */
                                                                                                             END:
                                                                                            ELSE fILE_SPEC_PTR = REC_PTR_VOL;
                                                                                                                                                                                                                                                                                        /* Otherwise, simply point to existing one *
                                                                               IF CLISGET_VALUE (QUAL$L_REC,FILE_SPEC)
                                                                                                                                                                                                                                                                                         /* Qualifier value specified ? */
                                                                                             THEN DO:
```

MON VO4

```
16-SEP-1984 02:11:11
5-SEP-1984 15:09:57
MONMAIN
                                                                                                           VAX-11 PL/I X2.1-273 Page 42 ISK$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI; 1 (31)
V04-000
                                         REC_PTR_SWAP = YES;
M->MRBSA_RECORD = FILE_SPEC_PTR;
 3055
3056
                                                                                                           /* Yes -- ind to SET_CMD a ptr swap is neces
/* Store away pointer to string descr */
                                   ELSE M->MRB$A_RECORD = ADDR(DEF$L_REC);
                                                                                                            /* No -- store a default value */
 3060
END:
                                                                                                            /* If explicitly negated, */
                   IF CALL = CLIS NEGATED
                        THEN DO:
                              QUAL SPECIFIED = YES:
                                                                                                            /* Indicate qualifier explicitly specified *
                              M->MRB$A_RECORD = NULL();
                                                                                                            /* Indicate no record output */
                   CALL = CLISPRESENT(QUALSL_SUMM);
                                                                                                            /* Get SUMMARY qualifier presence indicator
                   IF CALL = CLIS_PRESENT
                                                                                                            /* If explicitly present, */
                        THEN DO:
                              QUAL_SPECIFIED = YES;
                                                                                                           /* Indicate qualifier explicitly specified *
/* If no volatile file spec string area, */
                              IF SUMM PTR VOL = NULL()
THEN DO;
                                         ALLOCATE FILE SPEC;

SUMM PTR VOL = FILE SPEC PTR;

FILE SPEC.L = LENGTR(FILE SPEC.S);

FILE SPEC.A = ADDR(FILE SPEC.S);
                                                                                                                  then get one */
                                                                                                                  set up a ptr to it */
                                                                                                            /*
                                                                                                                 set length ... */
and address in descriptor */
                                                                                                            11
                                         END:
                                   ELSE FILE_SPEC_PTR = SUMM_PTR_VOL:
                                                                                                           /* Otherwise, simply point to existing one *
                              IF CLISGET_VALUE(QUALSL_SUMM, FILE_SPEC)
                                                                                                           /* Qualifier value specified ? */
                                   THEN DO:
                                         SUMM PTR SWAP = YES;
M->MRB$A_SUMMARY = FILE_SPEC_PTR;
                                                                                                           /* Yes -- ind to SET_CMD a ptr swap is neces
/* Store away pointer to string descr */
                                   ELSE M->MRB$A_SUMMARY = ADDR(DEF$L_SUMM);
                                                                                                           /* No -- store a default value */
                              END:
                   IF CALL = CLIS_NEGATED
                                                                                                           /* If explicitly negated, */
                        THEN DO:
                              QUAL_SPECIFIED = YES;
                                                                                                           /* Indicate qualifier explicitly specified *
                              M->MRBSA_SUMMARY = NULL();
                                                                                                            /* Indicate no summary output */
                   CALL = CLISPRESENT(QUALSL_COMM);
                                                                                                           /* Get COMMENT qualifier presence indicator
                   IF CALL = CLIS PRESENT
                                                                                                           /* If explicitly present, */
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                        THEN DO:
                              QUAL SPECIFIED = YES;
                                                                                                           /* Indicate qualifier explicitly specified *
                              IF COMM PTR VOL = NULL()
THEN DO;
                                                                                                           /* If no volatile comment string area, */
                                         ALLOCATE COMM_STR;
                                                                                                                 then get one ... */
                                         COMM_PTR_VOL = COMM_STR_PTR;
                                                                                                                 and set up a ptr to it */
 3108
3109
                                   ELSE COMM_STR_PTR = COMM_PTR_VOL;
                                                                                                           /* Otherwise, simply point to existing one *
 3110
                              IF CLISGET_VALUE(QUALSL_COMM, DYN_STRING)
                                                                                                           /* Qualifier value specified ? */
```

```
D 14
16-SEP-1984 02:11:13
5-SEP-1984 15:09:57
MONMAIN
VO4-000
                                                                                                                            VAX-11 PL/I X2.1-273 Page 44 ISK$VMSMASTER: [MONTOR.SRC]MONMAIN.PLI; T (32)
BUILD_IFB_TABLE: Procedure Returns(Fixed Binary(31));
                       /+++
                      /* /* FUNCTIONAL DESCRIPTION:
                                 BUILD_IFB_TABLE
                                 This routine builds the IFB (Input File Block) TABLE. In addition, it sets up MRB$A_INPUT to point to the IFB TABLE, and sets up MRB$B_INP_FILES to be the number of input files described by
                       /* INPUTS:
                      /*
                                 None
                          IMPLICIT INPUTS:
                      1+
                                 IFB_TABLE, MRB
                          OUTPUTS:
                      1+
                                 None
                          IMPLICIT OUTPUTS:
                                 IFB_TABLE built, MRB$A_INPUT and MRB$B_INP_FILES estblished.
                      1 *
                      1.
                          ROUTINE VALUE:
                      1+
                      /*
                                 Normal, or bad status from LIB$FIND_FILE
                      1 *
                      /* SIDE EFFECTS:
                      1=
                                 None
 3168
3169
3170
                      1+
                      101
```

MONMAIN VO4-000		E 14 16-SEP 5-SEP	-1984 02:11:13 -1984 15:09:57	VAX-11 PL/I X2.1-273 Page 45 ISK\$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI; (33)
3171   2 3172   2 3173   2 3174   2 3175   2 3176   2 3177   2 3178   2	/* /* /* /* /* /* /*	GLOBAL STORAGE DEFINITIO	NS.	
3179 2 3180 2 3181 2 3182 2		FIXED BINARY (31) GLOBALDEF VAL	UE INIT(125); /*	* Max no. of input files for multi-file summary
3184   2 3185   2 3186   2 3187   2 3188   2 3189   2	/* /* /* /* /* /* /* /* /* /* /* /* /* /	EXTERNAL REFERENCES		
3190 2 3191 2 3959 2 3960 2 3961 2	XINCLUDE Declare MON_ERR	MONDEF; ENTRY (ANY VALUE, ANY, ANY) OPTIONS (VA		nitor utility structure definitions */
22222222222222222222222222222222222222	DSC\$K_DTYPE_T FIXED BINARY(15) GLOBALREF VALUE, DSC\$K_CLASS_D FIXED BINARY(15) GLOBALREF VALUE, SS\$ NORMAL FIXED BINARY(31) GLOBALREF VALUE, RMS\$ EOF FIXED BINARY(31) GLOBALREF VALUE, RMS\$ FNF FIXED BINARY(31) GLOBALREF VALUE, RMS\$ FNF FIXED BINARY(31) GLOBALREF VALUE, MNR\$ OPENIN FIXED BINARY(31) GLOBALREF VALUE, MNR\$ TOOMNYFILES FIXED BINARY(31) GLOBALREF VALUE, LIB\$FIND_FILE EXTERNAL ENTRY(ANY, ANY, ANY, ANY, ANY, ANY, ANY, ANY,		/* Routine to log synchronous errors */ /* String descr. type */ /* Dynamic descr. class */ /* System normal return status */ /* RMS end-of-file return status */ /* RMS no-more-files message for wildcard parsing */ /* RMS file-not-found message */ /* Error message code */ /* Error message code */ Y.ANY) /* RTL routine to parse a wildcard spec*/ Y(31)) /* RTL routine to end wildcard spec parse*/ /* RTL string copy routine */ /* Pointer to volatile IFB_TABLE */ /* YES => swap IFB_TAB_VOL and IFB_TAB_PERM */	

```
VAX-11 PL/I X2.1-273 Page 47 ISK$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI; (34)
V04-000
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4055
                                 IF IFB TAB VOL = NULL()
                                                                                                                                                                    /* If no volatile IFB table, */
                                          THEN DO:
                                                    ALLOCATE IFB TABLE;
IFB TAB VOL = IFB TAB PTR;
DO I = T TO MAX INP FILES + 1;
UNSPEC(AN_IFB(I)) = '0'B;
                                                                                                                                                                                   then get one */
                                                                                                                                                                                  set up a ptr to it */ clear entire */
                                                                                                                                                                       19
                                                                                                                                                                                   array to */
                                                    END:
                                                                                                                                                                                  zeroes */
                                                    END:
                                         ELSE IFB TAB PTR = IFB TAB VOL;
                                                                                                                                                                    /* Otherwise, simply point to existing one */
                                                  NOTE -- at this point, the volatile pointer (IFB_TAB_VOL) and the base
                                 14
                                 1.
                                                                   pointer (IFB_TAB_PTR) both point to the IFB_TABLE in use.
                                 101
                                                                                                                                                      /* Start off loop with no input files */
/* ... and assume a qualifier value (file spec) found */
/* Init main loop status */
/* Init input file counter */
/* init CONTEXT */
                                 M->MRBSB INP FILES = 0;
VALUE_FOUND = YES;
                                  CALL = SSS_NORMAL:
                                 I = 1;
CONTEXT = 0;
                                                 NOTE -- What follows are two loops - the outer loop does CLISGET VALUE calls, and the inner loop does LIBSFIND FILE calls. The CLISGET VALUE loop is controlled by STATUS, which is the low bit of CALL, a also by VALUE FOUND. CALL will always be SSS_NORMAL unless the LIBSFIND_FILE loop runs into trouble.
                                                                   CALL is what is ultimately returned by this procedure.
                                      WHILE (STATUS & VALUE FOUND);

FIND FILE CALL = SS$ NORMAL;

DYN SPEC.T = DSC$K_DTYPE_T;

DYN SPEC.C = DSC$K_CLASS_D;

IF "CLI$GET_VALUE (QUAL$L_INP,DYN_SPEC)

THEN DO;

IF M->MRB$B_INP_FILES = 0

THEN CALL LIB$SCOPY_DXDX(DEF$L_REC,DYN_SPEC);

ELSE VALUE_FOUND = NO;

END;

/* Begin CLI$GET_VALUE loop */

/* Init str. descr. type */

/* dynamic class */

/* file spec specified ? */

/* no filespec specified with qualifier */

/* use default filespec */

/* else indicate no more filespec */
                                DO WHILE (STATUS & VALUE FOUND):
FIND FILE CALL = SS$ NORMAL:
DYN SPEC.T = DSCSK DTYPE T:
DYN SPEC.C = DSCSK CLASS D:
IF "CLISGET_VALUE (QUALSL_INP, DYN_SPEC)
                                                                                                                                                       /* else indicate no more filespecs to skip LIB$FIND_FILE loo
                                      END;
DO WHILE(STATUS & FIND_FILE_STAT & VALUE_FOUND);
IFBPTR = ADDR(AN_IFB(1));
IF IFB$A_INPUT = NULL()
                                                                                                                                                       /* Begin LIB$FIND_FILE loop */
/* Address an IFB */
                                                                                                                                                       /* If not pointing to a file-spec yet, */
                                                        ALLOCATE PARSED SPEC;
IFBSA INPUT = PARSED SPEC PTR;
PARSED SPEC.T = DSCSK_DTYPE T;
PARSED SPEC.C = DSCSK_CLASS_D;
PARSED SPEC.A = NULL(T;
PARSED SPEC.L = 0;
                                                                                                                                                     /* allocate space for res
/* set up a ptr to it */
/* str. descr. type */
/* dynamic class */
                                                                                                                                                                  allocate space for result */
                                                                                                                                                                 make sure length, */
and address are 0 */
                                             END:

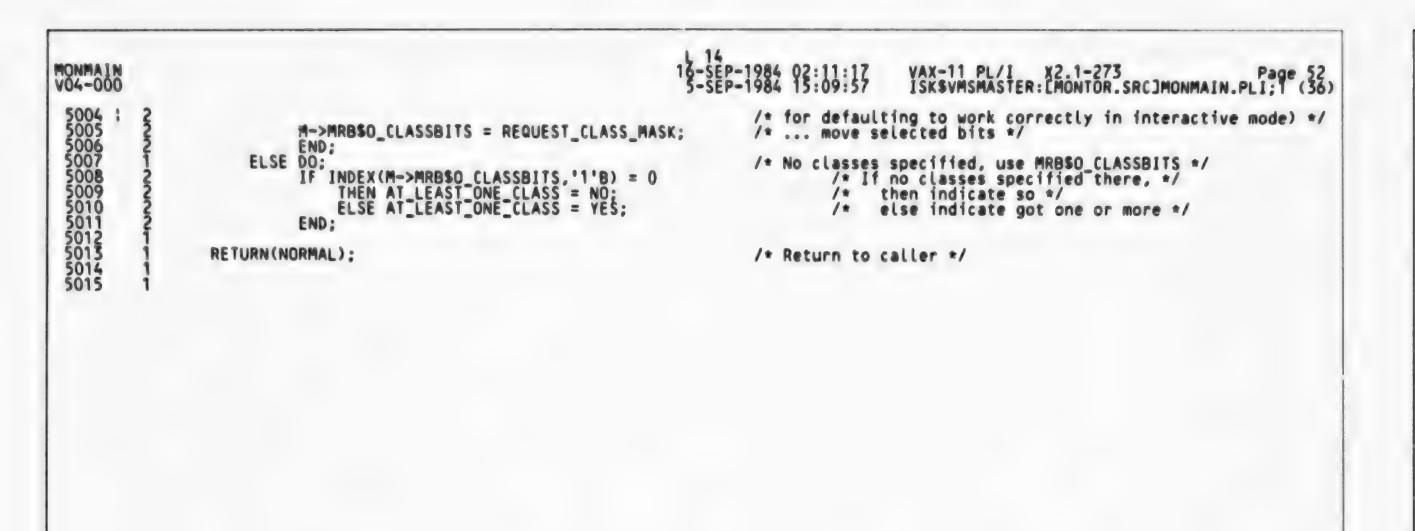
ELSE PARSED_SPEC_PTR = IFB$A_INPUT; /* Otherwise, simply point to existing one */

FIND_FILE_CALL=LTB$FIND_FILETDYN_SPEC,PARSED_SPEC,CONTEXT,DEF$L_REC,,,USER_FLAGS); /* Get the next full file s
  4056
4057
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4059
                                              IF FIND_FILE_STAT THEN DO;
                                                                                                                                                                   /* Did we get another valid filespec? */
                                                              M->MRB$B_INP_FILES = M->MRB$B_INP_FILES + 1;
IF I > MAX_INP_FILES
THEN DO;
                                                                                                                                                                   /* Yes -- count it */
/* If we have exceeded the max. allowed # of input f
  4060
```

MONMAIN

MC VC

```
MONMAIN
VO4-000
                                                                                                                         16-SEP-1984 02:11:17
5-SEP-1984 15:09:57
                                                                                                                                                                      VAX-11 PL/I X2.1-273 Page 51 ISK$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI; T (36)
                                                                                                                                                       /* Table of class names & numbers (dummy) */
/* Note -- CLASSTABLE is declared here simply */
/* so its address can be referenced below */
CLASSTABLE CHAR(1)
                                                                                          GLOBALREF:
                             Declare
REQUEST_CLASS_MASK
REQUEST_CLASS_VEC
                                                                          BIT(MAX_CLASS_NO+1), /* Requested classes have bits on */
(0:MAX_CLASS_NO) BIT(1) DEFINED(REQUEST_CLASS_MASK);
/* Alias for REQUEST_CLASS_MASK, but bit-addressable */
                             Declare
01 CLASS_VAL STATIC,
                                                                                                                                       /* String descr for value of CLASS NAME qualifier */
/* Note -- must be STATIC to get INVCLSNM msg */
/* Length */
/* Address */
/* String */
                                                                           FIXED BINARY (31),
                                                                           POINTER,
CHAR(CLASS_TOK_SIZE+1);
                             CLASS_VAL.L = LENGTH(CLASS_VAL.S);
CLASS_VAL.A = ADDR(CLASS_VAL.S);
                                                                                                                                 /* Init length longword of descr */
/* Init address longword of descr */
                             REQUEST_CLASS_MASK = '0'B; /* Turn off all class bits initially */
ALL_CLASS_FOUND = NO; /* Assume we won't find ALL pseudo-class on this command lin
DO WHILE(CLISGET_VALUE(QUAL$L_CLASS_CLASS_VAL)); /* Loop once for each requested class */
CLASS_VAL.L = INDEX(CLASS_VAL.S,'') = 1; /* Now strip off trailing blanks */
IF CLASS_VAL.L < 0 THEN CLASS_VAL.L = CLASS_TOK_SIZE; /* If too long, replace with max token size */
                                     IF * LIB$LOOKUP_KEY(CLASS_VAL,CLASSTABLE,CLASS_KEY) /* Get class keyword number */
                                             THEN DO:
                                                      CALL MON_ERR(MNR$_INVCLSNM,,CLASS_VAL); /* Log error if bad class name */
RETURN(MNR$_INVCLSNM); /* ... and return with status */
                                    CLASS_VAL.L = CLASS_TOK_SIZE + 1;
IF CLASS_KEY = ALL_CLSNO
THEN_DO;
                                                                                                                                        /* Restore string len for next loop */
/* If all classes */
                                                      ALL CLASS FOUND = YES; /* inidicate we found ALL on this command line */
M->MRB$V_ALL_CLASS = YES; /* indicate its ALL class*/
DO I = 0 TO MAX_CLASS_NO; /* Loop once for each possible class */
REQUEST_CLASS_VEC(I) = YES; /* Turn on bit for this class */
CDBPTR = ADDRTCDBLOCK(I)); /* Get CDB addressability */
IF C->CDB$V_DISABLE THEN REQUEST_CLASS_VEC(I) = NO; /* If this class disabled, then ignore it */
                                                      END:
                                    END:
                              IF INDEX(REQUEST_CLASS_MASK, '1'B) = 0
                                                                                                                              /* If any classes specified, */
                                     THEN DO;
AT LEAST ONE CLASS = YES;
IF ALL CLASS FOUND = NO
THEN R->MRB$V_ALL_CLASS = NO;
                                                                                                                                      /* indicate got at least one */
/* if we didn't find the ALL pseudo-class */
/* ...make sure the ALL class flag is clear (this logic is n
```



```
GET_CLASS_QUALS: Procedure (CLSNO) Returns (fixed binary(31));
                           Declare
CLISPRESENT
                                                     ENTRY(ANY) RETURNS(BIT(1)),
ENTRY(ANY, ANY, FIXED BINARY(15))
RETURNS(BIT(1));
                           CLISGET_VALUE
                           Declare
                          MNRS QUALINV
MNRS SQUALERR
MNRS PDQUALERR
MNRS INVITEMNM
                                                     FIXED BINARY(31) GLOBALREF VALUE, FIXED BINARY(31) GLOBALREF VALUE, FIXED BINARY(31) GLOBALREF VALUE;
                           Declare
                           MODES_CLSNO
                                                     FIXED BINARY (31) GLOBALREF VALUE;
                          Declare
TEMP_CDBPTR
                                                                   POINTER :
                           1 CLASSTABLE GLOBALREF
                             2 VECTOR CT FIXED BINARY(31),
2 CL DESCR (0:127),
3 CL PTR POINTER,
3 CL NO FIXED BINARY(31):
                           Declare
                           1 STAT TABLE
2 STAT_DESC
                                                     GLOBALREF,
(0:STATS-1) POINTER;
                           Declare
                          1 PROCD_TABLE
2 PROCD_DESC
                                                     GLOBALREF, (0:PROCDISPS-1) POINTER;
                           Declare
                                                     FIXED BINARY(7),
FIXED BINARY(7),
BIT(1) ALIGNED,
FIXED BINARY(31),
CHAR(8) BASED,
CHAR(1) BASED;
                           QUAL FOUND
                           CLSNO
                           CLSTR
                           TREPLACE
                                                     ITEM_TOK_SIZE
                                                                                              BY 25:
                          Declare
REQUEST_ITEM_MASK
REQUEST_ITEM_VEC
                                                                   (0:15) BIT(1) DEFINED (REQUEST_ITEM_MASK);
                          Declare
01 ITEM_VAL STATIC,
                                                                                                                                      /* String descr for value of /ITEM qualifier */
/* Note -- must be STATIC to get INVITEMNM msg */
/* Length */
                                                                   FIXED BINARY(31),
                                                                   POINTER,
CHAR(ITEM_TOK_SIZE);
                                                                                                                                      /* Address */
                                                                                                                                      /* String */
```

```
/* CLE routine to determine presence of quals */
/* CLE routine to get qualifier values */
/* Error message code */
/* MODES class number */
/* tmp pointer for ALL class qualifier loop*/
/* Table of class names & numbers */
/* Count of longwords following in table */
/* Pointer to class cstring */
/* Class number */
/* Table of pointers to str descrs for statistic qua
/* Table of ptrs to str descrs for PROCESSES display
/* Loop control */
/* Loop control */
/* NO => haven't seen a qualifier yet */
/* Class number */
/* Dummy qualifier string descr */
/* Dummy first char of class cstring */
/* Size of token for item name */
/* Requested items have bits on */
/* Alias for REQUEST_ITEM_MASK, but bit-addressable
```

N 14 16-SEP-1984 02:11:18 5-SEP-1984 15:09:57 MONMAIN VO4-000 VAX-11 PL/I X2.1-273
ISK\$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI; (37) Declare IVAL\_LEN ITEM\_LTAB ITEM\_KEY /\* Actual length of item value string \*/
/\* Dummy first longword of item lookup table \*/
/\* Item keyword number \*/
/\* Note -- must be STATIC to get error msg \*/ FIXED BINARY(15), FIXED BINARY(31) BASED, FIXED BINARY(31);

M

```
MONMAIN
                                                                                                                                                                                                                                                                                           VAX-11 PL/I X2.1-273
V04-000
                                                                                                                                                                                                                                                                                           ISK$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI:T (38)
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                                                    1+
                                                                             NOTE -- CDBP1R (and its synonym C) has been set up by caller.
                                                    1+1
                                                                             Check for the presence of each of the statistics qualifiers (ALL, CUR, AVE, MIN, MAX). If specified for the non-standard class (PROCESSES), or if more than one specified, log error
                                                   /*
                                                    1 *
                                                    1+
                                                    1+
                                                                             and return.
                                                    1+1
                                                   QUAL FOUND = NO:
                                                                                                                                                                                                                                                                /* Indicate no statistics qualifiers found yet */
                                                   DO I = 0 TO STATS-1:
                                                                                                                                                                                                                                                                 /* Loop for each stat qual for this class */
                                                  IF CL!SPRESENT(STAT_DESC(1)->QD)
THEN IF C->CDB$V_STD = NO
                                                                                                                                                                                                                                                                  /* If this stat qual is present, */
/* Check if non-standard class */
                                                                                                                                                                                                                                                                  /* Non-STD -- stat quals not allowed */
                                                                                              THEN DO:
                                                                                                             CALL MON ERR(MNR$ QUALINV,,STAT_DESC(I)->QD,CL_PTR(CLSNO)->CLSTR); /* Log an error */
RETURN(MNR$_QUALINV); /* ... and return w
                                                                                                                                                                                                                                                                                                                                     /* ... and return with status *
                                                                                            ELSE IF QUAL FOUND = NO THEN DO:
                                                                                                                                                                                                                                                                  /* STD class -- If we haven't seen a qual yet, */
                                                                                                                                         QUAL FOUND = YES;

IF CESNO = ALL CLSNO
THEN DO J = 1 TO MAX CLASS NO;

IF C->CDB$V_STD = YES
                                                                                                                                                                                                                                                                  /* Indicate we found one this time */
                                                                                                                                                                                                                                                                  /* If ALL classes */
                                                                                                                                                                                                                                                                  /* Loop once for each possible class */
                                                                                                                                                                                                                                                                  /* If this is a standard class */
                                                                                                                                                           THEN DO:
                                                                                                                                                                          TEMP_CDBPTR = ADDR(CDBLOCK(J));
TEMP_CDBPTR->CDB$B_ST = I;
TEMP_CDBPTR->CDB$V_EXPLIC = YES;
                                                                                                                                                                                                                                                                                                                     /* ... Get CDB addressability */
                                                                                                                                                                                                                                                                                                                     /* ... and move in the requested sta
                                                                                                                                                                                                                                                                                                                     /* ... also indicate explicit qualif
                                                                                                                                          C->CDB$B ST = I;
C->CDB$V_EXPLIC = YES;
                                                                                                                                                                                                                                                                /* End ALL classes logic */
/* Move in the requested stat code */
/* Indicate a class qualifier explicitly specified *
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                                                                                                                                         /* We've seen a stat qual for this class already */
RETURN(MNR$_SQUALERR);

/* We've seen a stat qual for this class already */
RETURN(MNR$_SQUALERR);
/* Dog an error */
                                                                                                                          ELSE DO:
                                                                                                                                           END:
                                                   END:
```

VO

MO

V

V

END MONITOR\_CMD;

```
INP PTR SWAP = NO;

DISP PTR SWAP = NO;

REC PTR SWAP = NO;

SUMM PTR SWAP = NO;

COMM PTR SWAP = NO;

IFB TAB SWAP = NO;

TEMP MRBPTR->MRB = CURR MRBPTR->MRB;

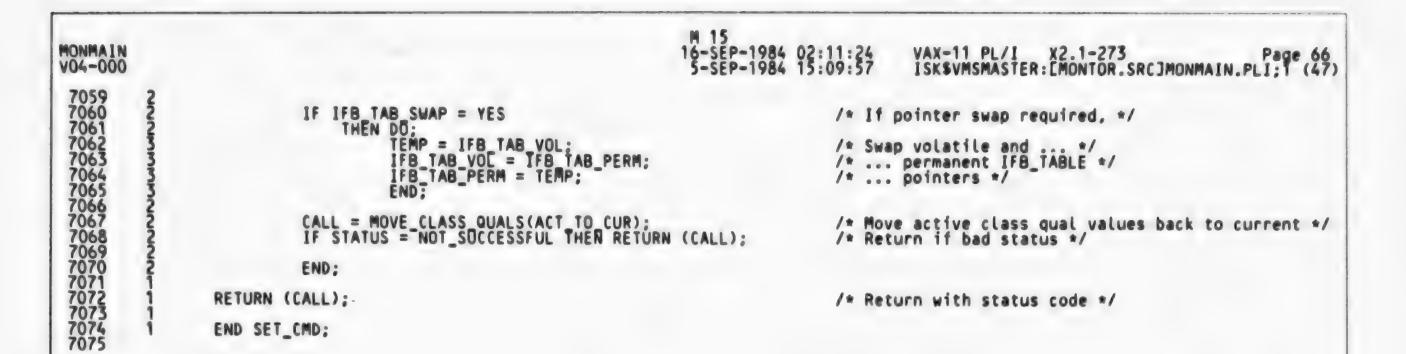
MDDDTR = TEMP MRRPTR:
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7
                                                                                      MRBPTR = TEMP_MRBPTR:
                                                                                    CALL = GET QUALIFIERS();
IF STATUS = NOT_SUCCESSFUL THEN RETURN (CALL);
                                                                                    CALL = MOVE_CLASS_QUALS(CUR_TO_ACT);
IF STATUS = NOT_SUCCESSFUL THEN RETURN (CALL);
                                                                                    CALL = GET_CLASSES(AT_LEAST_ONE_CLASS):
                                                                                    IF STATUS
                                                                                                           THEN DO:
                                                                                                                                     TEMP = TEMP_MRBPTR;
TEMP_MRBPTR = CURR_MRBPTR;
CURR_MRBPTR = TEMP;
                                                                                                                                     IF INP PTR SWAP = YES
                                                                                                                                                            THEN DO:
                                                                                                                                                                                       TEMP = INP_PTR_VOL;
INP_PTR_VOL = INP_PTR_PERM;
INP_PTR_PERM = TEMP;
END;
                                                                                                                                     IF DISP_PTR_SWAP = YES
                                                                                                                                                     THEN DO:

TEMP = DISP_PTR_VOL;

DISP_PTR_VOE = DISP_PTR_PERM;

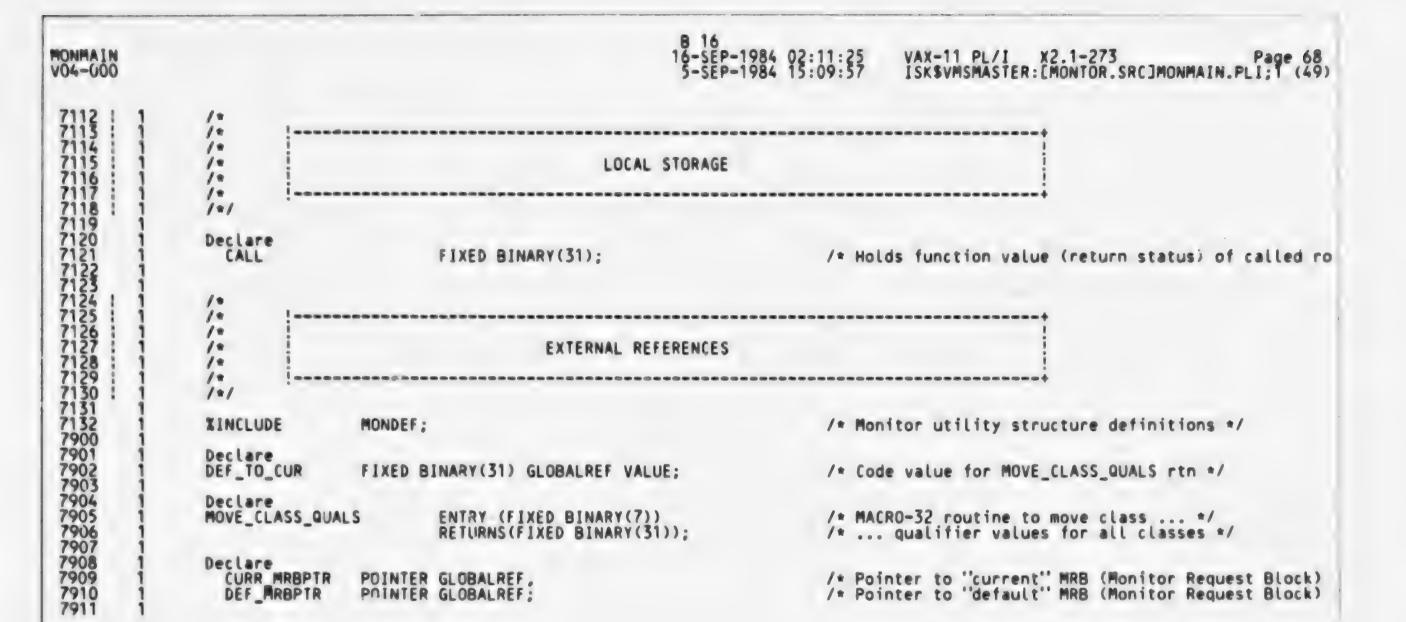
DISP_PTR_PERM = TEMP;
                                                                                                                                     IF REC_PTR_SWAP = YES
                                                                                                                                                            THEN DO:
                                                                                                                                                                                     TEMP = REC_PTR_VOL;
REC_PTR_VOL = REC_PTR_PERM;
REC_PTR_PERM = TEMP;
                                                                                                                                    IF SUMM_PTR_SWAP = YES
                                                                                                                                                           THEN DO:
                                                                                                                                                                                       TEMP = SUMM PTR VOL:
SUMM PTR VOL = SUMM PTR PERM;
SUMM PTR PERM = TEMP;
                                                                                                                                     IF COMM_PTR_SWAP = YES
                                                                                                                                                            THEN DO:
                                                                                                                                                                                      TEMP = COMM PTR VOL;
COMM PTR VOL = COMM PTR PERM;
COMM PTR PERM = TEMP;
```

```
/* Ind no swap needed for 2 ptrs to /INPUT file-spec
/* Ind no swap needed for 2 ptrs to /DISPLAY file-sp
/* Ind no swap needed for 2 ptrs to /RECORD file-spe
/* Ind no swap needed for 2 ptrs to /SUMMARY file-sp
/* Ind no swap needed for 2 ptrs to /COMMENT string
/* Ind no swap needed for 2 ptrs to IFB_TABLE */
/* Move 'current' MRB to 'temp' MRB */
/* Make all MRB refs refer to 'temp' MRB */
/* Get SET qualifiers */
/* Return if bad status */
  /* Move current class qual values to active */
 /* Return if bad status */
 /* Get info on requested classes */
  /* If successful. */
  /* Swap "current" and ... */
/* ... "temp" MRB pointers */
  /* .... */
 /* If pointer swap required. */
 /* Swap volatile and ... */
/* ... permanent /INPUT file-spec */
 /* ... pointers */
 /* If pointer swap required, */
/* Swap volatile and ... */
/* ... permanent /DISPLAY file-spec */
/* ... pointers */
 /* If pointer swap required, */
 /* Swap volatile and ... */
/* ... permanent /RECORD file-spec */
 /* ... pointers */
 /* If pointer swap required, */
/* Swap volatile and ... */
/* ... permanent /SUMMARY file-spec */
/* ... pointers */
/* If pointer swap required, */
 /* Swap volatile and ... */
/* ... permanent /COMMENT string */
 /* ... pointers */
```



/\* Routine to execute an INITIALIZE subcommand \*/

```
N 15
16-SEP-1984 02:11:24 VAX-11 PL/I X2.1-273 Page 67
5-SEP-1984 15:09:57 ISK$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI;1 (48)
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VO4-000
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                            INIT_CMD: Procedure Returns (Fixed Binary(31));
                            /*++
/*
                            /* FUNCTIONAL DESCRIPTION:
                                         INIT_CMD
                                       TBS
                            /*
/* INPUTS:
                                          TBS
                            /* IMPLICIT INPUTS:
                            /*
                                          TBS
                            /* OUTPUTS:
                                      TBS
                            /* IMPLICIT OUTPUTS:
                                         TBS
                            /* ROUTINE VALUE:
                            /=
                                         TBS
                            /* SIDE EFFECTS:
                            10
                                         TBS
                            1+
                            111
```



MONMAIN VO4-000 CURR\_MRBPTR->MRB = DEF\_MRBPTR->MRB; CALL = MOVE\_CLASS\_QUALS(DEF\_TO\_CUR); RETURN (CALL): END INIT\_CMD;

C 16 16-SEP-1984 02:11:25 VAX-11 PL/I X2.1-273 Page 69 5-SEP-1984 15:09:57 ISK\$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI; T (50)

/\* Move default MRB to current MRB \*/
/\* ... and default class qual values to current \*/

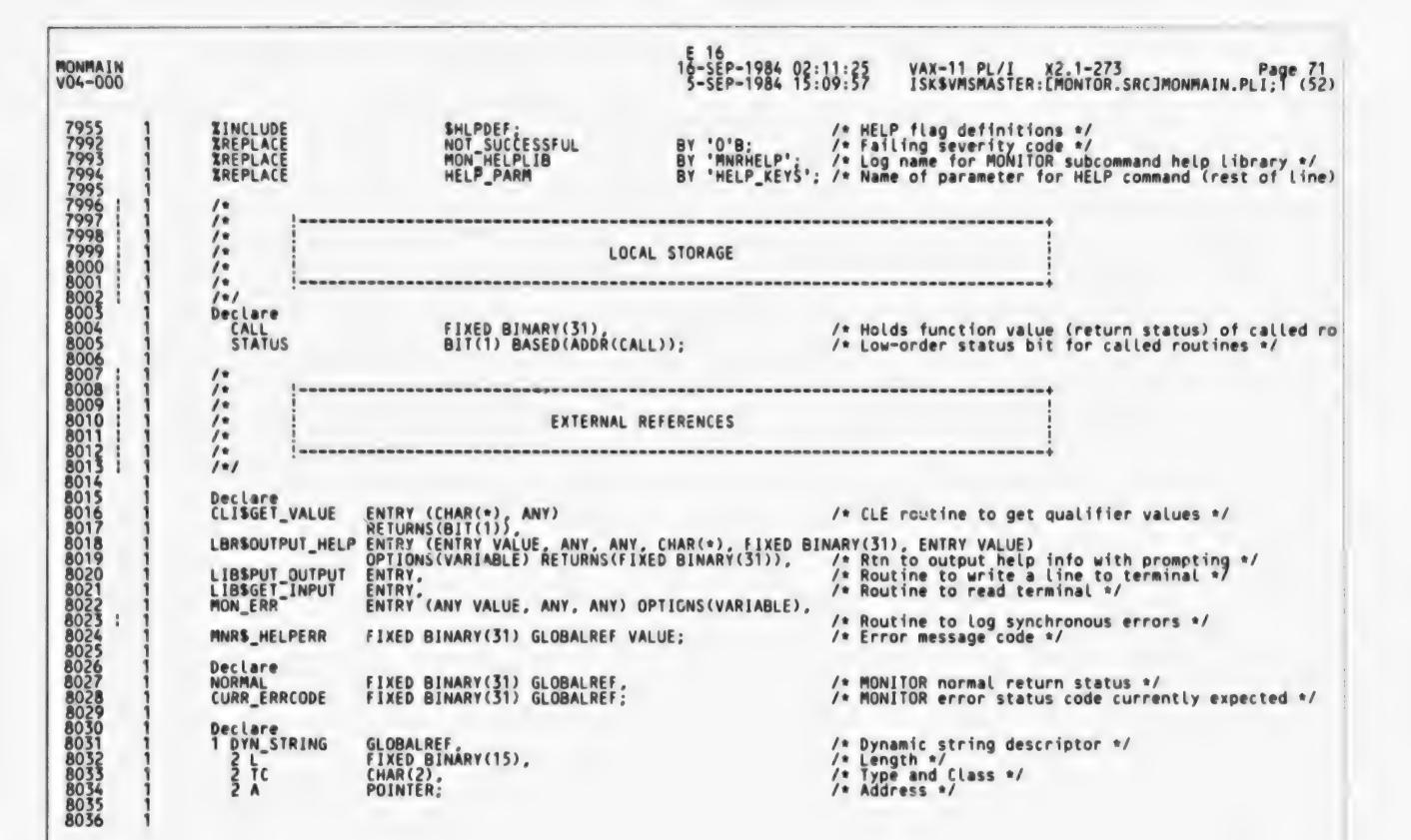
/\* Return with status code from MOVE\_CLASS\_QUALS \*/

/\*

101

TBS

D 16 16-SEP-1984 02:11:25 VAX-11 PL/I X2.1-273 Page 70 5-SEP-1984 15:09:57 ISK\$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI;1 (51)



G 16 16-SEP-1984 02:11:26 VAX-11 PL/I X2.1-273 Page 73 5-SEP-1984 15:09:57 ISK\$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI;1 (54)

MONMAIN VO4-000		H 16 16-SEP-19 5-SEP-19	284 02:11:26 084 15:09:57	VAX-11 PL/I X2.1-273 Page 74 ISK\$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI;T (55)
8093   1 8094   1 8095   1 8096   1 8097   1	/* /* /* /*	LOCAL STORAGE		
8093   1 8094   1 8095   1 8096   1 8097   1 8098   1 8109   1 8103   1 8104   1 8105   1 8106   1 8107   1 8108   1 8109   1 8110   1 8111   1 8112   1 8113   1	/*/ /* /*			. 1
8106   1 8107   1 8108   1 8109   1	/* /* /* /* /*	EXTERNAL REFERENCES		
8111 1 8112 1 8113 1	Declare PROMPT NORMAL	BIT(1) ALIGNED GLOBALREF, FIXED BINARY (31) GLOBALREF;	/* YES /* MOR	S => prompt user for another subcommand */ NITOR normal return status */

•

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MONMAIN VO4-000 PROMPT = NO; RETURN (NORMAL); END EXIT\_CMD;

1 16 16-SEP-1984 02:11:27 VAX-11 PL/I X2.1-273 Page 75 5-SEP-1984 15:09:57 ISK\$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI; T (56)

/\* Indicate no more prompting for subcommands \*/

/\* Return with status code \*/

MONMAIN

```
L 16
16-SEP-1984 02:11:28 VAX-11 PL/I X2.1-273 Page 78
5-SEP-1984 15:09:57 ISK$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI;1 (58)
MONMAIN
V04-000
 Declare
                                                                           FIXED BINARY(31),
BIT(1) BASED(ADDR(CALL));
                                     STATUS
                                                                                                                                                      /* Holds function value (return status) of called ro
/* Low-order status bit for called routines */
                              Declare
                                     1 EXEC_FILE_PARM,
                                                                           FIXED BINARY (31), POINTER.
                                     1 EXEC_FILE_VAL,
                                                                           FIXED BINARY (31),
                                                                           POINTER,
                                     EXEC_FILE_NAME
EXEC_FILE_STR
                                                                           CHAR(9) STATIC INIT('EXEC_FILE'); CHAR(FILE_SPEC_SIZE) STATIC INIT('MONITOR.MON');
                             ON UNDEFINEDFILE (COMMAND_FILE) GOTO OPEN ERROR:
                                                                                                                                                      /* Set up the UNDEFINEDFILE condition */
                              IF EXECUTE = YES
                                                                                                                                                      /* Make sure there is only 1 level of execute comman
                                    THEN DO:

CALL MON ERR(MNR$ ERREXECOM);

RETURN(MNR$ ERREXECOM);
                                                                                                                                                       /* Log the error... */
                                                                                                                                                       /* Return to processing the execute command file */
                             EXECUTE = YES;

EXEC_FILE_PARM.L = LENGTH(EXEC_FILE_NAME);

EXEC_FILE_PARM.A = ADDR(EXEC_FILE_NAME);

EXEC_FILE_VAL.L = LENGTH(EXEC_FILE_STR);

EXEC_FILE_VAL.A = ADDR(EXEC_FILE_STR);

CURR_ERRCODE = MNRS_ERREXEFIL;

CALL = CLISGET_VALUE(EXEC_FILE_PARM, EXEC_FILE_VAL);

IF STATUS = NOT_SUCCESSFUL
                                                                                                                                                   /* Let everyone know command input is coming from a
/* Set the length of the EXEC_FILE descriptor */
/* Set the address of the EXEC_FILE string */
/* Set the length of the execute filename descriptor
/* Set the address of the execute filename string */
/* Set MONITOR code for signaled errors */
/* Get EXECUTE file name */
/* If failed, */
                                     THEN DO:
                                            EXECUTE = NO:
CALL MON ERR(MNRS ERREXEFIL, CALL);
RETURN(MARS ERREXEFIL);
                                                                                                                                                      /* Error, no longer doing an EXECUTE subcommand */
/* Log the error ... */
/* ... and return with status */
                             OPEN FILE(COMMAND_FILE) INPUT SEQUENTIAL TITLE(EXEC_FILE_STR) /* Open the execute command file */
ENVIRONMENT(DEFAULT_FILE_NAME(*.MON*)); /* with .MON for default file type
                                                                                                                                                       /* with .MON for default file type */
                              CURR ERRCODE = 0;
RETURN (NORMAL);
                                                                                                                                                      /* Set MONITOR code for signaled errors */
/* Return with success code */
                             OPEN_ERROR:

EXECUTE = NO;

CURR_ERRCODE = 0;

CALL MON ERR(MNR$ ERREXEOPN);

RETURN(MNR$_ERREXEOPN);
                                                                                                                                                      /* Indicate no more from the execute file */
/* Reset to default MONITOR code in case subcommand
                                                                                                                                                       /* Log the error ... */
                                                                                                                                                       /* ... and return with status */
                              END EXECUTE_CMD;
```

MONMAIN VO4-000

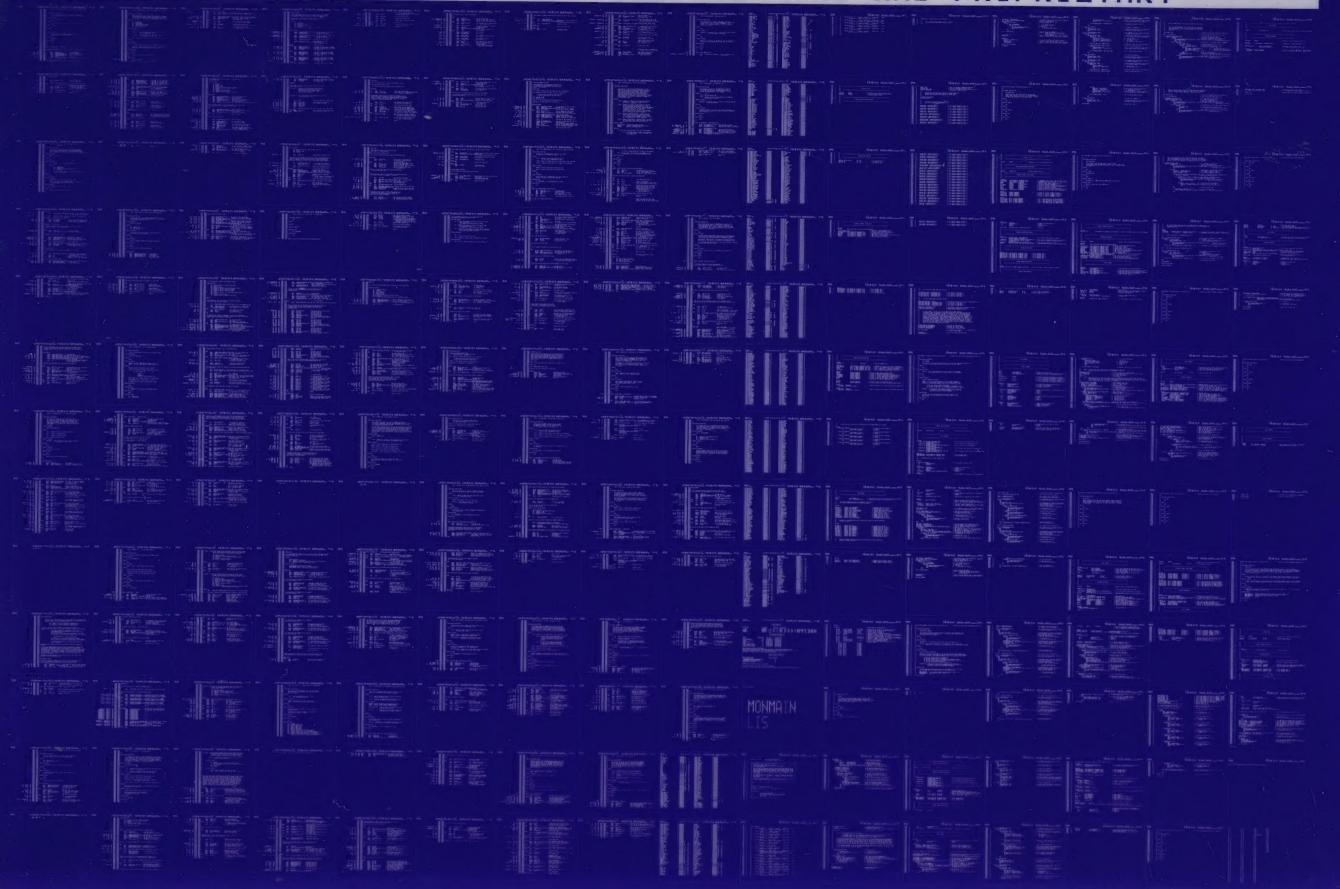
M 16 16-SEP-1984 02:11:29 VAX-11 PL/I X2.1-273 Page 79 5-SEP-1984 15:09:57 ISK\$VMSMASTER:[MONTOR.SRC]MONMAIN.PLI;1 (58)

PLI/LIS=LIS\$: MONMAIN/OBJ=OBJ\$: MONMAIN MSRC\$: MONMAIN+LIB\$: MONLIB/LIB

B 1

0241 AH-BT13A-SE

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0242 AH-BT13A-SE VAX/VMS V4.0

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